

Reply to "Comment on 'Similarity between quantum mechanics and thermodynamics: Entropy, temperature, and Carnot cycle' "

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Abstract

© 2015 American Physical Society. In their Comment on the paper [Abe and Okuyama, Phys. Rev. E 83, 021121 (2011)10.1103/PhysRevE.83.021121], González-Díaz and Díaz-Solórzano discuss that the initial state of the quantum-mechanical analog of the Carnot cycle should be not in a pure state but in a mixed state due to a projective measurement of the system energy. Here, first the Comment is shown to miss the point. Then, second, multiple projective measurements are discussed as a generalization of the Comment, although they are not relevant to the work commented.

<http://dx.doi.org/10.1103/PhysRevE.91.056102>
